WHAT IS CLAIMED IS:

1. A method of coating free-standing micromechanical devices, the method comprising:

depositing an organic resin coating material on said micromechanical device, said

coating material comprised of at least 35% solids in a solvent, said coating material

having a viscosity no greater than 120 centistokes; and

curing said coating material.

- 2. The method of Claim 1, said depositing comprising depositing a coating material having a viscosity of 118 centistokes.
- 3. The method of Claim 1, said depositing comprising depositing a coating material having a surfactant.
- 4. The method of Claim 1, said depositing comprising depositing said coating material in a layer thick enough to cover structures on said micromechanical device after the removal of said solvent.
- The method of Claim 1, comprising:
 rotating said micromechanical device to distribute said organic coating material.
- 6. The method of Claim 1, comprising:

 rotating said micromechanical device at 3000 rpm to distribute said organic coating material.
- 7. The method of Claim 1, said curing comprising: heating said micromechanical device.
- 8. The method of Claim 1, said curing comprising:

 heating said micromechanical device at 100° C.
- 9. The method of Claim 1, said curing comprising:

heating said micromechanical device to a first elevated temperature to remove a majority of said solvent, and then lowering said temperature to remove additional solvent.

10. A method of coating free-standing micromechanical devices, the method comprising:

depositing an organic resin coating material on said micromechanical device, said coating material comprised of at least 35% solids in a solvent, said coating material having a viscosity no greater than 120 centistokes;

rotating said micromechanical device to distribute said organic coating material; and

curing said coating material.

- 11. The method of Claim 10, said depositing comprising depositing a coating material having a viscosity of 118 centistokes.
- 12. The method of Claim 10, said depositing comprising depositing a coating material having a surfactant.
- 13. The method of Claim 10, said depositing comprising depositing said coating material in a layer thick enough to cover structures on said micromechanical device after the removal of said solvent.
- 14. The method of Claim 10, comprising:

rotating said micromechanical device at 3000 rpm to distribute said organic coating material.

- 15. The method of Claim 10, said curing comprising:
 - heating said micromechanical device.
- 16. The method of Claim 10, said curing comprising:

heating said micromechanical device at 100° C.

17. The method of Claim 10, said curing comprising:

heating said micromechanical device to a first elevated temperature to remove a majority of said solvent, and then lowering said temperature to remove additional solvent.

18. A method of coating free-standing micromechanical devices, the method comprising:

depositing an organic resin coating material on said micromechanical device, said coating material comprised of at least 40% solids in a solvent, said coating material having a viscosity no greater than 120 centistokes; and

curing said coating material.

- 19. The method of Claim 18, said depositing comprising depositing a coating material comprised of between 40 and 50% solids.
- 20. The method of Claim 18, said depositing comprising depositing a coating material comprised of 49% solids.
- 21. The method of Claim 18, said depositing comprising depositing a coating material having a viscosity of 118 centistokes.
- 22. The method of Claim 18, said depositing comprising depositing a coating material having a surfactant.
- 23. The method of Claim 18, said depositing comprising depositing said coating material in a layer thick enough to cover structures on said micromechanical device after the removal of said solvent.
- 24. The method of Claim 18, comprising:

rotating said micromechanical device to distribute said organic coating material.

25. The method of Claim 18, comprising:

rotating said micromechanical device at 3000 rpm to distribute said organic coating material.

26. The method of Claim 18, said curing comprising:

heating said micromechanical device.

27. The method of Claim 18, said curing comprising:

heating said micromechanical device at 100° C.

28. The method of Claim 18, said curing comprising:

heating said micromechanical device to a first elevated temperature to remove a majority of said solvent, and then lowering said temperature to remove additional solvent.

- 29. A method of coating free-standing micromechanical devices, the method comprising:

 depositing a solvent layer on said micromechanical device;

 depositing an organic resin coating material on said solvent layer;

 allowing said organic resin coating material to displace said solvent layer; and

 curing said organic resin coating material.
- 30. The method of Claim 29, said depositing an organic resin coating material comprising depositing an organic resin coating material having a viscosity no greater than 120 centistokes.
- 31. The method of Claim 29, said depositing an organic resin coating material comprising depositing an organic resin coating material having a viscosity of 118 centistokes.
- 32. The method of Claim 29, said depositing a solvent layer comprising depositing a layer of PGMEA.

- 33. The method of Claim 1, said depositing an organic resin coating material comprising depositing an organic resin coating material comprised of at least 35% solids in a solvent.
- 34. The method of Claim 29, said depositing a solvent layer comprising depositing a layer of solvent and dissolved organic resin.
- 35. The method of Claim 29, said depositing a solvent layer comprising depositing a layer of PGMEA and dissolved organic resin.
- 36. The method of Claim 29, comprising:
 rotating said micromechanical device to distribute said solvent.
- 37. The method of Claim 29, comprising:

 rotating said micromechanical device to distribute said organic resin coating material.
- 38. The method of Claim 29, comprising:

 rotating said micromechanical device to remove excess solvent.
- 39. The method of Claim 29, comprising:

 rotating said micromechanical device to remove excess organic resin coating material.
- 40. The method of Claim 29, said curing comprising: heating said micromechanical device.
- 41. The method of Claim 29, said curing comprising:

 heating said micromechanical device at 100° C.
- 42. The method of Claim 29, said curing comprising:

heating said micromechanical device to a first elevated temperature to remove a majority of said solvent, and then lowering said temperature to remove additional solvent.